

## Product datasheet for SC115039

### Encephalopsin (OPN3) (NM\_014322) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Encephalopsin (OPN3) (NM_014322) Human Untagged Clone
Tag:	Tag Free
Symbol:	Encephalopsin
Synonyms:	ECPN; PPP1R116
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115039 sequence for NM_014322 edited (data generated by NextGen Sequencing)

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ATGNACTCGGGGAACCGCAGCGGGCCACGGCTACTGGGACGGCGGGGCCGCGGGC
GCTGAGGGGGCCGCGCCGCGGGGACACTGAGCCCCGCGCCCTCTTACGCCCGCACC
TACGAGCGCCTGGCGCTGCTGCTGGGCTCCATTGGGCTGCTGGGCGTCGCAACAACCTG
CTGGTGTCTGCTCTACTACAAGTTCCAGCGGCTCCGCACTCCCACTCACCTCCTCCTG
GTCAACATCAGCCTCAGCGACCTGCTGGTGTCCCTCTTCGGGGTCACCTTTACCTTCGTG
TCCTGCCTGAGGAACGGCTGGGTGTGGGACACCGTGGGCTGCGTGTGGGACGGGTTAGC
GGCAGCCTCTTCGGGATTGTTTCCATTGCCACCCTAACCGTGTGGCCTATGAACGTTAC
ATTCGCGTGGTCCATGCCAGAGTGATCAATTTTTCTGGGCTGGAGGGCCATTACCTAC
ATCTGGCTCTACTACTGGCGTGGGACAGGACACCTCTCCTGGGATGGAACAGGTACATC
CTGGACGTACACGACTAGGCTGCACTGTGGACTGGAAATCCAAGGATGCCAACGATTCC
TCCTTTGTGCTTTTCTTATTTCTTGCTGCCTGGTGGTGGCCCTGGGTGTCATAGCCCAT
TGCTATGGCCATATTCTATATCCATTGCAATGCTTCGTTGTGTGGAAGATCTTCAGACA
ATTCAAGTGATCAAGATTTTAAATATGAAAAGAACTGGCCAAAATGTGCTTTTAAATG
ATATTCACCTTCCTGGTCTGTTGGATGCCTTATATCGTGATCTGCTTCTTGGTGGTTAAT
GGTCATGGTCACCTGGTCACTCCAACAATATCTATTGTTTCGTACCTCTTTGCTAAATCG
AACACTGTATAACAATCCAGTGATTTATGTCTTCATGATCAGAAAGTTTCGAAGATCCCTT
TTGCAGCTTCTGTGCCTCCGACTGCTGAGGTGCCAGAGGCTGCTAAAGACCTACCAGCA
GCTGGAAGTGAAATGCAGATCAGACCCATTGTGATGTCACAGAAAGATGGGGACAGGCCA
AAGAAAAAAGTGACTTTCAACTCTTCTTCCATATTTTTATCATCACCAGTGATGAATCA
CTGTCAAGTTGACGACAGCGACAAAACCAATGGGTCCAAAGTTGATGTAATCCAAGTTCGT
CCTTTGTAG

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Clone variation with respect to NM\_014322.2  
4 t=>n



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014322 unedited</p> <pre>TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCGCCGCGAGCCCC GCCGCAAGCTGAGCGCCTCCGCCCGCAGGCGCGCCGGCGCCGGGCCATGTAAGCGGGGA ACCGCAGCGGGCCACGGCTACTGGGACGGCGGGCGGGCCGCGGGCGCTGAGGGGCCGG CGCGCGGGGACACTGAGCCCCGCGCCCTCTTCAGCCCCGGCACCTACGAGCGCCTGG CGCTGCTGCTGGCTCCATTGGGCTGCTGGGCGTCGGCAACAACCTGCTGGTGTCTGTC TCTACTACAAGTCCAGCGGCTCCGCACTCCCACTCACCTCCTCCTGGTCAACATCAGCC TCAGCGACTGCTGGTGTCCCTCTTCGGGGTACCTTTACCTTCGTGTCCTGCCTGAGGA ACGGCTGGGTGTGGGACACCGTGGGCTGCGTGTGGGACGGGTTTAGCGGACGCTCTTCG GGATTGTTCCATTGCCACCCTAACCGTGTGGCTATGAACGTTACATTCGCGTGGTCC ATGCCAGAGTGATCAATTTTTCTGGGCCTGGAGGGCCATTACCTACATCTGGCTCTACT CACTGGCGTGGGACGAGCACCTCTCCTGGGATGGAACAGGTACATCCTGGGACGTACAC GGACTANGCTGCACTGTGGACTGGAATCCAAGGATGCCAACGATTCTCCTTTGAGCTT TTCTTATTTCTGGCTGCCTGGTGGTGGCCCTTGGGTGCATAGCCATTGCTATGGCCA TATTCTATATTCCATTGCATGGGCTCGTGGGGGGAAGATCTCAGACAATNCAGTGATCC AGATTTTAAATATGAAAAGAACTGGCCAAATGTGCTTTTAAATG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014322 unedited</p> <pre>GCGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTATAGAAAACAAAGCCATTA CTTTATTCAATTTAGACCCCTCAGAAGCAATTTACTAATTTATTCTTCGACTACATACTG CAGCAGAACAGCAATACACTTGATTTTTAAAAGCACATTTAGTGAAATGTTTTCTTTGG TTCATCCTTCTTAAACAGGCTGCTGAGTCACTCAGAAATCCTTCAAACATGATTAATTAT GAAGATGAAACACTAGAGTCATATAAGAAATAAAAATTGGGCAATAAAATAAAATGATTC AGTGTTCCTTTCTATATTGTCATGAAAACCTTGAGTTCTAATAATCCATGTTCAAGTTT GTAGGGAAAGAAAAATAATTTTTCTTCTACCCACTTTAAGTTCCTTGGCTGGGGCCCC TATAACAAAAGACAGATTGACAAGAGAAAAACAAACATAAATTTATTAGCGGGTATATGT AATATATATGTGGGAAATACAGGGGAATGAGCAAATCTCAAAGAGCTGGCGTCTTATAAC TCCCTGGCTTATATAGCATCGACAAAGAACAGTAAATTTTTAGAGAAACAACAAAACAAA GAAAAAGAGCTTTGAGTCTGTAGGGGACGCAATTTGGGGGAAGCAAATATATGGGAGTTT GCCTTGATAGATTCCTCTGGTGTGGTCTCCAAGCTGACAAAGATTCAAAGNTGTCTCTGA AACTCCTCTTTGTCACTGACATATAAAACGCTTTTTGTTTCCACAAGAAGATCTTCT TTTTCATTTAGAAATTATCCCCTTGATAACTTGATCAGATATAGGACATGACACTGAATA GAGTCCACAGTACAAAAAAGCAGTTGTTCTACTACTTACACTGTGACGCGAAGTATTTT TACAGAAGTATTTCCAGAAAGCTTACCGCTTGGAAAACAGTATTAATAATTTTTGAAGAAA TCCCACCTT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014322
<b>Insert Size:</b>	2600 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_014322.2](#), [NP\\_055137.2](#)

**RefSeq Size:** 2632 bp

**RefSeq ORF:** 1209 bp

**Locus ID:** 23596

**UniProt ID:** [Q9H1Y3](#)

**Cytogenetics:** 1q43

**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Gene Summary:** Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. In addition to the visual opsins, mammals possess several photoreceptive non-visual opsins that are expressed in extraocular tissues. This gene, opsin 3, is strongly expressed in brain and testis and weakly expressed in liver, placenta, heart, lung, skeletal muscle, kidney, and pancreas. The gene may also be expressed in the retina. The protein has the canonical features of a photoreceptive opsin protein. [provided by RefSeq, Jul 2008]